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Armstrong
Student
SCHOLARS
Symposium

Explore Engage Enlighten



APRIL 18–19, 2018
Student Union
Armstrong Campus
Georgia Southern University

STUDENT SCHOLARS SYMPOSIUM

Wednesday, April 18, 2018
KEYNOTE & POSTER SESSIONS



KEYNOTE ADDRESS

Dr. Anastasia Lin

Mapping Opportunities in Undergraduate Research

Ogeechee Theatre

10:30–11:30 a.m.

Functional Morphology	President's Dining	11 a.m.–12:15 p.m.
COLA RA Panel	Skidaway	12:30–1:30 p.m.
Lunch	Student Union	11:30 a.m.–1:30 p.m.
Poster Session 1	Ballrooms	12–1:30 p.m.
Poster Session 2	Ballrooms	2–3:30 p.m.
Poster Session 3	Ballrooms	4–5:30 p.m.

Thursday, April 19, 2018
POSTER & ORAL SESSIONS

Art, Music and Theatre	Ballroom A	9:30 a.m.–12 p.m.
Biology	Ballroom C	9:30–9:50 a.m.
Chemistry and Physics	Ballroom C	9:50–12 p.m.
Criminal Justice, Social and Political Science	Ballroom B	1:10–3:20 p.m.
Education	Ogeechee Theatre	4:15–4:55 p.m.
Faculty UR Workshop with Dr. Lin	Ogeechee Theatre	3–4:15 p.m.
Get involved! Researcher & Mentor Panel	President's Dining	2–3 p.m.
History	Ogeechee Theatre	9:30–10:50 a.m.
Languages, Literature and Philosophy	Ballroom B	9:30 a.m.–1:10 p.m.
Mathematics	Ballroom C	2–3 p.m.
Moot Court Argument Simulation	President's Dining	3:30–4 p.m.
Nursing	Ballroom A	12:30–1:10 p.m.
Panel: Europe in the High Middle Ages	President's Dining	11:30 a.m.–1 p.m.
Panel: Norman Rule in England Panel	President's Dining	9:30–11 a.m.
Poster Session 4 (HIST 2000)	Ballroom Hallway	3:30–4:45 p.m.
Psychology	Ballroom C	12:30–1:50 p.m.
Rehabilitation Sciences and Physical Therapy	Ballroom A	1:10–5:10 p.m.
University Writing Awards	Tybee	2–3:30 p.m.

April 18, 2018

ORAL & POSTER PRESENTATIONS

PRESIDENT'S DINING ROOM

Functional Morphology Oral Presentations

11:00-12:15

Mentor: Austin Francis, Jr.

SKIDAWAY ROOM

Research Assistant Panel

12:30-1:30

Hannah Bryan, Eliza DeRienzo, Andrew Dierking, Rebecca Thiele, & David Woods Moderator: Allison Belzer

**=Graduate Student

*=Honor's Project

=Grant Recipient

+=Georgia Power Scholar

POSTER SESSION 1 (12-1:30 P.M.)

1. ^Chaienne Tucker, *A Community Literacy Partnership around Kwame Alexander's the Playbook: 52 Rules to Aim, Shoot, and Score in this Game Called Life*. Mentors: Anne Katz & Lynn Roberts
2. **Katherine Baker, *We Need Diverse Books: A Children's Literature Analysis*. Mentor: Anne Katz
3. **Caitlin Macon, *Children's Literature through a Hispanic Lens*. Mentor: Anne Katz
4. **Ashley Stroud, *Reading Assessment Tools*. Mentor: Anne Katz
5. A'lexia Jenkins, *See Yourself in the Text: A Diverse Children's Literature Analysis*. Mentor: Anne Katz
6. Kayla Wilharm, *Expanding and Exploring Sharing Opportunities in Writing*. Mentor: Anne Katz
7. Caleb Branham & Pierce Graves, *Current Influenza Epidemic in Georgia*. Mentor: TimMarie Williams
8. **Jacquelyn Mesenbrink, **Darnel Howlett & **Neal Modi, *Evaluating the Effects of the Cancer Preventing Vaccination*. Mentor: McKinley Thomas
9. Samantha Jordan & Deana Dabit, *HIV in Metro Atlanta*. Mentor: TimMarie Williams
10. **Victoria Hearn, **Tequan Dorsey & **Elizabeth Abioro, *Evidence Based-Review of the Prescription Opioid and Hepatitis C Syndemic Among Young People Who Inject Drugs*. Mentor: McKinley Thomas
11. ^Hafsa Junaid & Andrea Delgado, *Diabetes in Georgia*. Mentor: TimMarie Williams
12. Moriah Harris, *Student Health Coaches in Two Safety Net Clinics*. Mentor: Janet Buelow
13. **Tessa Wilkins, *Peer Education to Pre-licensure Nursing Students: How Electronic Health Records Impact the Patient, Nurses, and the Organization*. Mentor: Paula Tillman
14. **Stephanie Hooper & **Dwayne Lofton, *"Grind Well": Improving Quality of Life Outcomes Among Black Males*. Mentor: Nandi Marshall
15. **Morgan Peterson & **Bryan Newsome, *Analysis of Ambient Air Pollution Monitoring and the Effects on Urban Population Health: A Systematic Literature Review*. Mentor: Sara Plaspohl
16. **Christina Cook & **Jacelyn Crumley, *Interventions Aimed at Increasing Vegetable Consumption for Adults and Adolescents: An Evidence-Based Review*. Mentor: Sara Plaspohl
17. **Elisabeth McConico, *The Forest Hill High School Project*. Mentor: Nandi Marshall
18. **Adriana Scurry & **Erin Smarr-Allen, *Barriers to Vaccination in Children 19 to 35 in the United States*. Mentor: Sara Plaspohl.
19. **Grant Voyles & **Khatiga Nasir, *Mental Health Issues in Elderly Ages 60 and Over*. Mentor: Nandi Marshall
20. **Latoriya Young, *Poverty: The Hopeless Effect on High School Graduation Rates*. Mentor: Sara Plaspohl
21. **Katherine Simmons & **Morgan Glazer, *Improving Cognitive Functioning in Adults with Traumatic Brain Injury: Technology Assisted Cognitive Therapy as Compared to No Cognitive Intervention*. Mentor: April Garrity
22. **Lunie Beal, *Evidence-Based Behavioral and Social Factors of Colorectal Cancer Screening in African-American Men, ages 50 and older*. Mentor: Sara Plaspohl
23. **Bresa Daise & **Megan Hudson, *Street Kitchen*. Mentor: Nandi Marshall
24. **Ernest Chisholm & **Taphenes Bradley, *Fall Prevention in the Elderly*. Nandi Marshall
25. **Tequan Dorsey, *Preventive Measures Among Obese Children and Adolescents: Comparison of Interventions*. Mentor: Sara Plaspohl
26. **Anyfa Hanna, *Mediterranean Diet in the Prevention of Breast Cancer*. Mentor: Sara Plaspohl
27. **Steven Williams & **Kelli Rouser, *The Association Between Bullying and Suicide Amongst Adolescents*. Mentor: Sara Plaspohl
28. **Lakeysa Mutcherson, *Access to Care for Military Families*. Mentor: Nandi Marshall
29. **Akeya Sanders, *Proposed Program: Comprehensive Sexual Health Education for Public School Students in Chatham County, Georgia Aged 12-19 years old*. Mentor: Nandi Marshall

30. **Mande'-kan Mendes, *Eating Better for African American Young Males*. Mentor: Nandi Marshall
 31. **Tevin Duncan, *Benefits of Resistance Training in Undergraduate Males*. Mentor: Sara Plaspohl
 32. **Kimberly Thomas & **Jeffery Finney, *Health Disparities Among Black MSM and HIV/AIDS*. Mentor: Sara Plaspohl
 33. *Stacie Sims, *The Effects of Regular Exercise on the Stress Levels of College Students*. Jeffrey Harris
 34. Bailey Dale, Lottie Trammell, & Sarah Kuehn, *Non-Small Cell Lung Cancer: Adenocarcinoma of the Lung*. Mentor: Pamela Cartright
 35. Madison Caldwell, Mariah Goolsby, Farah Lopez, Talia Mitchell, *The Importance of Ultrasound Guidance During Lumbar Puncture in Pediatrics*. Mentors: Myka Bussey-Campbell & Yvonne Zakrzewski
 36. Lauren Dean, Emma Fox, Olivia Sharp, Fatima Swint, & Courtney Walker, *The Ultrasound Evaluation of Horseshoe Kidney*. Mentors: Myka Bussey-Campbell & Yvonne Zakrzewski
 37. Jillian Heck, Corinne Salle, Cierra Drake, & Yirley Rojas, *The Use of Sonography to Assess Intrauterine Devices (IUDs)*. Mentors: Myka Bussey-Campbell & Yvonne Zakrzewski
 38. *Ansley Triplett, *Christina Becker, *Lydia McKee, & *Kimaya Walker, *Focused Assessment with Sonography for Trauma*. Mentors: Myka Bussey-Campbell & Yvonne Zakrzewski
 39. Clark Evans, Aaliyah Miles, & Hannah Vulgamore, *Beauty is Skin Deep, so is Melanoma*. Mentor: Pamela Cartright
 40. Emily Shepherd, Lauren Biles, LeeAnna Harn, & Haley Watson, *Glioblastoma Multiforme: A Review*. Mentor: Pamela Cartright
 41. Sophia Lorimer, Margaret Turner, Lydia Egich, *The Silent Killer: Ovarian Cancer*. Mentors: Pamela Cartright & Pamela Adams
 42. ^Ellisa Davis, *Effective Traumatic Brain Injury Treatments for Military Personnel*. Mentor: Casey Keck
 43. **Sydney Boyum, *Exploring the Segmentals and Suprasegmentals in Individuals with Foreign Accent Syndrome*. Mentor: April Garrity
 44. **Madison Howell & **Victoria Hadden, *Impeding the onset of dementia: The role of modifying lifestyle choices versus refraining from adapting lifestyle behaviors*. Mentor: April Garrity
 45. **Jaycelin Jones & **Bobbie Sue Maiorano, *Breaking Bad: Treating TBI Related Executive Dysfunction in Inmates*. Mentor: April Garrity
 46. **Kasey Woods, *Recruiting the Right Hemisphere in Aphasia Treatment: Exploring Melodic Intonation Therapy and its Variants*. Mentor: April Garrity
 47. **Carley Bunch & **Taylor Hill, *The Improvement of Language in Individuals with Aphasia: Does the Intensity Level of Constraint-Induced Language Therapy determine Client Success*. Mentor: April Garrity
 48. **Julianna Reed & **Jessica Schulte, *Improving Functional Communication Abilities in Individuals with Right Hemisphere Disorder: A Comparison of Treatment of Nonlinguistic and Extralinguistic Communication Versus No Intervention*. Mentor: April Garrity
 49. **Breana Johnson, *Rehabilitation Strategies for Adults Rehabilitating from Traumatic Brain Injury: A Comparison of Group Therapy and Individual Intervention Strategies*. Mentor: April Garrity
 50. **Caroline Braun, *Increasing communication competence in individuals with non-fluent aphasia: A comparison of no tech and high tech AAC interventions*. Mentor: April Garrity
- POSTER SESSION 2
(2-3:30 P.M.)**
1. **Jackie Mesenbrink & **Darnel Howlett, *Socioeconomics Status & Hesitancy: Barriers to infant vaccination in the United States*. Mentor: Sara Plaspohl
 2. **Victoria Hearn, *Chronic Pain Management Program for Beaufort County Active Duty Military: An Application of the PRECEDE-PROCEED Program-Planning Model*. Mentor: Nandi Marshall
 3. **Elizabeth Abioro, **Anyfa Hanna, & **Lubov Gladkova, *Children Exposed To Secondhand Smoke*. Mentor: Sara Plaspohl
 4. Delaney Dusch, *Fauvism and Color Psychology*. Mentor: Raymond Gaddy
 5. ^Chance Everette, *Creatures With Features 3: New Monsters*. Mentor: Rachel Green
 6. ^Gabrielle Nichols, *Reclaiming Their Voices: An Examination of Black Student Experiences at a Historically White University*. Mentor: Alicia Brunson
 7. ^Stephen Bray, *GARCH Volatility Model of iShares Core S&P 500 Exchange Traded Fund*. Mentor: Michael Toma
 8. ^Paige Toraya, *Savannah Bicycle Campaign: The Socioeconomic Impact of Bicycling*. Mentor: Michael Toma
 9. +Andrew Goetz, *Analysis of Allocative Methods for Representative Government with a Focus on Small Scale Applications*. Mentor: James Brawner

10. ^Gayla Herbert, *Preliminary Research For Economic Impacts Of Post-Disaster Gasoline Prices*. Mentor: Michael Toma
11. Ashley Villwok, *The Troops Keep Marching On: Virginia's Ghostlore and Historical Identity*. Mentor: Alena Pirok
12. Ashley Gholston, *Babies in Jars and Puppies in Pots: A Comparison of Human and Animal Sacrifice*. Mentors: Jason Tatlock & Amy Potter
13. ^*Linnea Ryan, *Out of Sight, Out of Mind: Examining Gender Representation in Savannah's Historical Markers*. Mentor: Amy Potter
14. Amber Neagley, *Urbanization of Savannah, GA within the Last Decade and the Impacts on the Coast*. Mentor: MeiMei Lin
15. Sarah Bohall, *Strategy choice, mastery motivation, and the emergence of infant hand preference*. Mentor: Joshua Williams
16. ^*Sara Baker & ^*Tara Van Kleef, *Spatial Orientation by Feature or Geometry: Determination of Preference for Texture in the Absence of Visual Cues*. Mentor: Jonathan Roberts
17. Angelica Cullen, Susana Shiner, & Justin Phillips, *Note taking in college: What students note may foster immediate retention*. Mentors: Joshua Williams & Nancy McCarley
18. ^Henning Schein, *The Effects of Vibration Stress on Zebrafish Brain Biochemistry*. Mentor: Keri Mans
19. Brittney Jones, *Attitudes Toward Animal Research: Twenty One Years Later*. Mentor: John Kraft
20. ^Kimberly Prescott, ^Kelly Marden, Thea Smith, ^+Daniel Crafton, & ^+Mary-Kate Moore, *Comparative decision making of rats amid varying methodologies*. Mentor: Rebecca Rayburn-Reeves
21. ^+Daniel Crafton, ^Thea Smith, ^Kimberly Prescott, *Using Raspberry Pi to explore cheaper alternatives of operant chambers and discrimination learning in rats*. Mentor: Rebecca Rayburn-Reeves
22. ^+Mary-Kate Moore, *An analysis of PowerPoint learning with spelling errors on relevant and irrelevant words*. Mentors: Joshua Williams & Nancy McCarley
23. ^Alexis Edgy, ^Amanda Flake, & ^Alice Ionescu, *Gratitude as a Buffer Against Media-Induced Body Dissatisfaction*. Mentor: Wendy Wolfe
24. Ky'Aria Moses, ^Sarah DesLauriers, Keyla Gonzalez, Catherine Simmons, & Marcus Walker, *PowerPoint Spelling Errors, Information Retention, and Instructor Professionalism*. Mentors: Joshua Williams & Nancy McCarley
25. ^*Mallie Best & ^*Shelbie Deaton, *Caregiver Burden: Comparing Effects from Alzheimer's Disease and Frontotemporal Dementia*. Mentor: April Garrity
26. ^*Marissa Dardozi & ^*Nicole Batalini, *Quality Care for Individuals with Dementia: A Comparison Between Resources in the United States and in Developing Countries*. Mentor: April Garrity
27. ^*Ansley Arrington & ^*MacKenzie McWhorter, *Decreasing Behavioral and Psychological Symptoms in Individuals with Dementia - A Comparison of Animal Assisted Intervention and Simulated Presence Therapy*. Mentor: April Garrity
28. ^Hafsa Junaid & Kiana Brown, *Active learning by teaching: Improving student confidence and skills in statistics via use of Camtasia video technology*. Mentor: Joshua Williams
29. Shelby Button, *Hand Preference as a Result of Experience*. Mentors: Jennifer Wertalik & Joshua Williams
30. Brooke Nichols, *Exploring the Relationship Between Handholding Behaviors and Dominance*. Mentor: Joshua Smith
31. Daniel Samuel, *Hand preference as infants learn to reach*. Mentor: Joshua Williams
32. Jousephine Araya, *The effects of electrode placement on the intensity of extracellularly-recorded action potentials in response to mechanical stimulation of cockroach legs*. Mentor: Robert Mans
33. ^Taylor Standard, *DNA Methylation among Catfish*. Mentor: Aaron Schrey
34. Chabryia Henley, *The Impact of Sensorimotor Experience and the Emergence of Hand Preference in Infants*. Mentor: Joshua Williams
35. ^Nicholas Wright & Cornequa Reynolds, *Effects of action on perception: Directionality and prior sports experience*. Mentor: Joshua Williams
36. William Sloggy & Shaun Dobbs, *Cross-Platform Mobile Application Development*. Mentor: Daniel Liang
37. ^Michael Underwood, *Multi Robot Tracking using Open CV image processing libraries for C++*. Mentor Ashraf Saad
38. Kyle Bergeron, Steven Finnell & David Stewart, *X3D Sensor Based Thermal Maps*. Mentor: Felix Hamza-Lup
39. Anderson Duong, *MATLAB Graphical User Interfaces (GUIs) for Thermodynamics*. Mentor: Priya Goesser
40. Jason Russell, Russell McGrath, Warren Stevens & Cody Warnock, *A Static Analysis of Guy-wire Placement*. Mentor: Priya Goesser
41. Jack Finnegan & Chris Hayes, *Moisture Absorbing Goggle Attachments*. Mentor: Wayne Johnson
42. Brendan Jarboe, Nathan Carter, Austin Webb, & Dylan Rice, *Optimum Hydraulics*. Mentor: Priya Goesser

43. Dhruvi Patel, Hugo Gomez, Amanda Maner, & Jasmin Reeves, *External Forces on an Arm Extension Machine*. Mentor: Priya Goesser
44. **Michaelyn Newberry, **Julie Troche, **Megan Eisenberg, & **Jessika Puglisi, *Reducing Falls in Assisted Living Center Adults using LiFE Program Principles*. Mentor: James Karnes
45. **Emily Bressler, *PRECEDE-PROCEED for HIV reduction in high school students for the Hopi Tribe*. Mentor: Nandi Marshall
46. Christopher Conrad, Bich-An Dang, Sarah Franklin, & Kelly Szczepanski. *Truss System Design for Foot Bridge*. Mentor: Priya Goesser
47. Austin Webb, *3D Printing Outcomes of a Bioresorbable Polymer-Ceramic Composite for Biomedical Applications*. Mentor: Cameron Coates

POSTER SESSION 3 (4-5:30 P.M.)

1. ^Hafsa Junaid, *The Effects of a Self-management Intervention Consisting of Goal Setting, Self-monitoring, and Incentives on Increasing Daily Steps*. Mentor: Andrew Bulla
2. +^Mary Kate Moore, ^Thea Smith, ^Daniel Crafton, & ^Kelly Marden, *Learning and behavior: The relationship between egocentric cues and memory in a spatial midsession reversal task*. Mentor: Rebecca Rayburn-Reeves
3. Dhruvi Patel, *The Influence of Rivet Installation Imperfections on Lap Joint Fatigue Life*. Mentor: Cameron Coates
4. **^Brian Kohler, *Prevalence Of Wolbachia In Local Populations Of Cockroaches In The Southeastern US*. Mentor: Jennifer Zettler
5. ^Heather Buske, *A Survey for Wolbachia Bacterium in Biting Midges*, Mentors: Traci Ness & Jennifer Zettler
6. ^Ariel Joy Lipat, ^Brian Kohler, & ^Heather Buske, *Determining the Prevalence of Wolbachia in Thrips in Costal Georgia*. Mentors: Jennifer Zettler & Traci Ness
7. ^Justin Anuskiewicz, *DNA methylation of Channel Catfish in Dammed Rivers*. Mentor: Aaron Schrey
8. ^Faith Loggins, *Does wildfire cause DNA methylation diversity in lizards?* Mentor: Aaron Schrey
9. **^Kaley Powers, *Imparting A. nidulans with Fungicide Resistance via Overproduction of the AtrB Subunit of an Efflux Protein Pump*. Mentor: Sara Gremillion
10. *^Mukti Patel & *Sierra Bartlett, *Comparison of extraction kits for generation of high concentration and quality DNA from sea turtle cloacal fluid samples*. Mentors: Jennifer Brofft Bailey & Kathryn Craven
11. ^Dulce Gonzalez, *Epigenetic Variation in the Florida Scrub Lizards*. Mentor: Aaron Schrey
12. ^Emily Parker, *Association of nitrogen-fixing cyanobacteria with Oenothera humifusa (evening primrose) roots*. Mentors: Jennifer Brofft Bailey & Heather Joesting
13. ^Robert Adams, *Florida Sand Skink Epigenetics Research Project*. Mentor: Aaron Schrey
14. ^Nicholas Everhard, *DPIV of 3D Model of Bonnethead Shark Cephalofoil*. Mentor: Austin Francis
15. **^Lydia Peavy, *DNA Methylation Patterns in Florida Sand Skink in Response to Wildfire*. Mentor: Aaron Schrey
16. ^+Forrest Collins, *Fiddling with environmental variables: Influence of tidal height and food availability on fiddler crab behavior*. Mentor: Michele Guidone
17. ^+Adriana Norris & ^Madison Sox, *Survey of loggerhead nesting sand for potential bacterial and fungal pathogens using next generation sequencing*. Mentors: Jennifer Brofft Bailey & Kathryn Craven
18. Megan Petty, Christopher Lee, & ^+Jonathan Pope, *Potential functionality of the xanthophyll cycle in the sand dune herb Hydrocotyle bonariensis*. Mentor: Heather Joesting
19. ^+Jonathan Pope, Megan Petty, & Christopher Lee, *Potential effects of barnacle colonization on Spartina alterniflora in Georgia salt marshes*. Mentor: Heather Joesting
20. ^Jessica Pham, Kyle Richard, Kyra Wong & Brianna Davis, *Survey of Local Blue Crabs for Hematodinium Incidence*. Mentors: Paul Dunn & Jennifer Brofft Bailey
21. ^Osama Serio & ^Taylor Standard, *Improving Solubility of Noxol β* . Mentor: Nicole Davis
22. ^Katelyn Cook, *Screening of specific genes for the Wolbachia endosymbiont from local mosquito populations*. Mentor: Scott Mateer
23. **^Mary Carpenter & ^Kyle Awalt, *Behavior and Biochemical Aspects of Learning and Memory in Danio rerio*. Mentors: Keri Mans & Robert Mans
24. ^Aaron Burke & ^Kyle Awalt, *A Preliminary Exploration of the Impact of Agricultural Methods on the Chemical Composition of Ginger Rhizome*. Mentors: Richard Wallace & Suzanne Carpenter
25. ^Sarah Johnson, *Investigating the effect of oxygen circulation on basil plant growth in an aquaponics system*. Mentor: Heather Joesting
26. Iva Scepianovic, *Seasonal multi-year survey of mud snail density and shell size at three Savannah, GA sites*. Mentor: Michele Guidone

27. ^Ansley Osborne, *Epigenetic Variation in the Florida Sand Skink*. Mentor: Aaron Schrey
28. Joshua Moore, *Limiting extrinsic mortality and discovering sources of ontogenescence in the brine shrimp Artemia salina*. Mentor: Paul Dunn
29. Chelsea Miles, Courtney Gest, Laurel Williams, & Angel Shumake, *Let's talk about sex baby: Can morphometric measurement of hatchling diamondback terrapins accurately predict sex by using principal component analysis?* Mentor: Kathryn Craven
30. Chelsea Miles, Kyra Wong, & Sierra Bartlett, *How Much Is That Turtle In The Window? The Real Cost of Doing Student Research*. Mentor: Kathryn Craven
31. ^Cicely Payne & ^Kyle Hinton, *Ex vivo activation of cholinergic receptors inhibits GSK-3 β in the telencephalon of adult zebrafish*. Mentor: Robert Mans
32. ^Chelsea Miller, *The Preparation and Analysis of Copper (II) Sulfate Crystal Formations: An Undergraduate Laboratory Curriculum Development Project*. Mentor: Catherine MacGowan
33. Kenneth Richardson, *Design and Synthesis of BQCA Analogs for Alzheimer's Disease Research*. Mentor: Sarah Zingales
34. ^Maria Huynh, *Determining if NOXO1 Binds to RIP1*. Mentor: Nicole Davis
35. ^Katelyn Smith, ^Serina Davenport, & ^Ariana Vargas, *Biocatalysis: Investigating the reaction profile of amine dehydrogenase*. Mentor: Brent Feske
36. Hunter Bourdon, *Identifying Human Perforin Chimera Expression Conditions to Elucidate a Second Membrane Interacting Region*. Mentor: Mitch Weiland
37. ^Brandon Campbell, *Incorporation of biologically susceptible disulfide linkages in the backbone of peptide nucleic acid*. Mentor: Nathaniel Shank
38. Taylor Hood & Daniel Josey, *Synthetic Optimization of Novel Peptide Nucleic Acid Monomers Containing a Disulfide Bond*. Mentor: Nathaniel Shank
39. ^Robert Smith, *Synthesis and Analysis of 4-Piperidinone Chalcones for Medicinal Properties*. Mentor: Sarah Zingales
40. ^Rakkia Smith, *Quality Control of Beer Through Detection of MBT*. Mentors: Sarah Gray & Sarah Zingales
41. ^+Minh Nguyen, *Antibacterial and Anticancer Activity of (2-Pyridinyl)methylene-1-tetralone Chalcones*. Mentor: Sarah Zingales
42. ^+William Hiester, *Biodegradation of poly(aspartic acid): An introductory biochemistry laboratory exercise*. Mentor: Mitch Weiland
43. ^Donna Rucker, *Autonomous sensor development for aquatic carbon measurements*. Mentor: Sarah Gray
44. ^Joseph Bazemore & ^Long Phan, *Ring-Opening Metathesis Polymerization Monomer Synthesis: An Organic Chemistry II Laboratory Experiment*. Mentor: Brandon Quillian
45. ^Stefani Moyer, *Developing a Green Microwave Synthesis of Polyaspartic Acid*. Mentor: Nathaniel Shank
46. ^Skyler Pitts, *Synthesis of a 2,6-Bis-(tricyclohexylphosphiniminomethyl)-benzene Nickel(II) Complex and its Reactivity with Dichloromethane*. Mentor: Gary Guillet
47. ^Andrew Martin, *Creating Molecular Handles from Synthetic Mimics of DNA*. Mentor: Nathaniel Shank
48. ^Anthony Petrillo, *Preparation and Characterization of Copper(II) Flavone and Bis(Pyrazolyl) Derivatives*. Mentor: Brandon Quillian
49. ^Michael Kelly, *Preparation of 7-Oxanorbornene Derivatives as Monomers for ROMP*. Mentor: Sarah Zingales
50. ^Staci Johnston & ^Phuong Nguyen, *Synthesis of enamine resistant substrates for an Amine Dehydrogenase library*. Mentor: Brent Feske

April 19, 2018

ORAL & POSTER PRESENTATIONS

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PRESIDENT'S DINING ROOM

Panels

Forging a Kingdom: Norman Rule in England, 1066-1135

9:30-11:00

Raymond Phipps, *Kingship in the Eleventh Century: William the Bastard's Claim to the Throne of England*; Andrew Brocato, *England, William Rufus, and the First Crusade*; Alyssa Saldivar, *The English Investiture Controversy: Archbishop Anselm and King Henry I*; Mentor: James Todesca

Europe in the High Middle Ages, c.1095-1348

11:30-1:00

Daniel Smith, *The Crusades: Heavenly or Worldly Warfare?*; Benjamin Okoro, *Richard the Lionheart vs. Saladin: The Legacy of the Third Crusade*; Lily Sanders, *Medieval Florence's Economy and the Black Death*; Mentor: James Todesca

Get Involved! Researcher and Mentor Panel

2:00-3:00

Michele Guidone, Biology; Gary Guillet, Chemistry; Meimei Lin, Geography; Nancy McCarley, Psychology; Jane Rago, LLP; Ashraf Saad, Computer Science

Moot Court Argument Simulation

3:30-4:00

Neal Schulze, Michael Miller, Tammy Mooren, Zachary Gruder, Mentor: Chris Tecklenburg

BALLROOM A

Art, Music and Theatre

9:30-12:00

9:30-9:50

^Elise Harris, *People of the Squares: Hand Coloring Savannah*. Mentor: Bridget Conn

9:50-10:10

Thelma Martin, *From Labor to Free Creative Endeavors of Dyeing with Indigo*. Mentor: Rachel Green

10:10-10:30

^Eric Sanders, *Art as a Catharsis: Creativity for Military Veterans*. Mentor: Deborah Jamieson

10:30-10:50

Bryan Bell, *Palestrina and Poulenc: Phrases from "O magnum mysterium."* Mentor: Russell Brown

11:00-11:20

^Darian Merritt, *Bulk Loading Film for Multiple Exposure*. Mentor: Bridget Conn

11:20-11:40

Eliza DeRienzo, *Beethoven and the Enlightenment: The Inspiration Behind Revolutionary Music*. Mentor: Robert Harris

11:40-12:00

^Elise Harris, *Shoot. Print. Tint*. Mentor: Bridget Conn

Nursing

12:30-1:10

12:30-12:50

^Courtney Sanderlin, *Disturbed Sleep Patterns Due to Stress Related to Nursing School: A Correlation Study at Armstrong State University*. Mentor: Kathy Morris

12:50-1:10

DeAnna Hillery, *A Gurvits Syndrome Case Study*. Mentor: Gina Crabb

Rehabilitation Sciences and Physical Therapy

1:10-4:50

1:10-1:30

**Josh Smith, **Lindsey Armstrong, **Chris Hobbs, & **Kendall Koballa, *Closed Chain vs Open Chain Plyometrics in the Upper Extremity*. Mentors: George Davies & Bryan Riemann

1:30-1:50

**Savannah Houck, **Krysten Hill, & **Katelyn Duckworth, *The Relationship of Lower Extremity Muscular Tightness with Footstrike Patterns in Recreational Runners*. Mentors: Haley Worst, Nancy Henderson, & George Davies

1:50-2:10

**Chris Campos, **Will Bullard, **Madison Houck, & **Fred Martin, *Effects of Exercise Induced Fatigue of the Shoulder Musculature on Upper Extremity Function*. Mentors: George Davies, James Karnes, & Bryan Riemann

2:10-2:30

**Taylor Collins, **Logan Falvo, **Ashley Dilley, & **Karly Nadolski, *Computerized Testing and Training of Mobilization Techniques Using Shoulder and Knee Models with First Year Physical Therapy Students*. Mentors: George Davies, Haley Worst, & Bryan Riemann

2:30-2:50

**Brittany Spaid, **Laura Sullivan, & **Max Langevin, *Effects of Fatigue on Footstrike in Recreational Runners*. Nancy Henderson, Haley Worst, & George Davies

2:50-3:10

**^Carly Mathis, *A Study in Cultural Competence*. Mentor: April Garrity

3:10-3:30

**Allison Kratzer, **Jared Hanna, **Matt Hassig, & **Roberto Aviega, *Unilateral Knee Ratios Correlation Between Sargent Vertical Jump Test, Handheld Dynamometry Testing and Isokinetic Testing*. Mentors: George Davies, Frank Glenn, & Bryan Riemann

3:30-3:50

**Mallory Arp, **Rebecca Fender, & **Darby Wiggins, *Establishing normative data for bone mineral density in college age females: A preliminary correlational study of lifestyle factors and bone mineral density*. Mentors: Andi Beth Mincer, Heather Lorden, & Keri Mans

3:50-4:10

**Joshua Morales, **Clay Austin, & **Lindsey Minick, *A comparison of the effects of HIIT training on lower extremity power—Spirit MUI00 upright cycle ergometer vs. Spirit MR100 recumbent cycle ergometer*. Mentor: Frank Glenn

4:10-4:30

**Kendra Wilholt, **Caitlin Greer, & **Samuel Carlson, *The Effectiveness of Laser-Assisted Visual Feedback with Quadruped Exercises on Improving Lumbar Stabilization*. Mentors: Andi Beth Mincer, Haley Worst, & Wayne Johnson

4:30-4:50

**Taylor Collins, **Logan Falvo, **Karley Nadolski, & **Ashley Dilley, *Long Term Retention of the Efficacy of a Computerized Shoulder and Knee Simulation Model on Developing Mobilization in Physical Therapy Students*. Mentor: George Davies, Haley Worst, Bryan Riemann

BALLROOM B

Languages, Literature, and Philosophy 9:30-12:30

9:30-9:50

Nicole Mitchell, *13 Reasons of Disruption*. Mentor: Jane Rago

9:50-10:10

*^Sierra Diemer, *Drowning in Possibility: Commonplace Metaphors and the Existing Pool of Knowledge Surrounding Aquatic Safety Education*. Mentor: Annie Mendenhall

10:10-10:30

^Kira Breen, *The Secret Life of Cows*. Mentor: Jonathan Roberts

10:30-10:50

Amber Stickney, *Delusions of Grandeur and Grand Narratives: How Salman Rushdie Deconstructs Master Narratives Through Gibreel Farishta's Schizophrenia*. Mentor: Hans-Georg Erney

10:50-11:10

Benjamin Cela, *Madonna Model Update Required: The Ever-Changing Personas of Madonna*. Mentor: Karen Hollinger

11:10-11:30

*^Abigail Meert, *The Remnants of Education within a Technological Society*. Mentor: Erik Nordenhaug, Allison Belzer, & Jonathan Roberts

11:30-11:50

Robert Lowe, *The Supreme Law: Homer's Conception of Fate Throughout The Odyssey*. Mentor: Christopher Baker

11:50-12:10

Elizabeth Boatwright, *A Trinity of Failures: "A Whole Wrecked System" in The Heavenly Twins by Sarah Grand*. Mentor: Jane Rago

12:10-12:30

Morgan Anderson, *Antoine Arnauld on Saint Anselm's Views on Salvation*. Mentor: Julie Swanstrom

Criminal Justice, Social, & Political Science 1:10-2:50

1:10-1:30

Kaley Maricle, *The Importance of Archeology (through example of the Kiah House)*. Mentor: Laura Seifert

1:30-1:50

Paul Ferdinand, *Turkey vs. The West*. Mentor: Nalanda Roy

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Timothy Eller, *Preparing For an Ethnography of Alternative ED Treatments*. Mentor: Virginia Estabrook

2:10-2:30

Norah Godbee, *Executive Response to Minority Rights*. Mentor: Lara Wessel

2:30-2:50

Ali Foster, *Education: A Lifetime Membership*. Mentor: Daniel Skidmore-Hess

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Biology 9:30-9:50

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Adam Belote, *Intricacies of Epigenetics in Tissue Regeneration*. Mentor: Aaron Schrey

Chemistry and Physics 9:50-11:50

9:50-10:10

*^Nicholas Moore, *"Light" Sleeping: The Effects of Chronic Sleep Deprivation on Zebrafish*. Mentor: Keri Mans

10:10-10:30

^Dylan Carter, *Tracking skunky beer: Colorimetric detection of 3-methyl-2-butene-1-thiol*. Mentor: Sarah Gray & Sarah Zingales

10:30-10:50

^Andrew Dye, *Gravity and Uncertainty in the Quantum Universe*. Mentor: Jeffery Secrest

10:50-11:10

^+Andrew Goetz, *Examination of the Evolution of Extra Dimensional Universes*. Mentor: Jeffery Secrest

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Spencer Coile, *Isomer enumeration: An exercise in group theory*. Mentor: Clifford Padgett

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^Ariana Vargas, *Asymmetric Reductive Amination using Amine Dehydrogenase*. Mentor: Brent Feske

Psychology 12:30-1:50

12:30-12:50

^Christina Nelson, ^Kimberly Prescott, & ^Sarah DesLauriers, *Decision-making Based on Work Effort and Distance*. Mentor: Rebecca Rayburn-Reeves

12:50-1:10

^Thea Smith, ^Daniel Crafton, & ^Kimberly Prescott, *Effects of Physical Effort on Decision Making in Rats*. Mentor: Rebecca Rayburn-Reeves

1:10-1:30

Angelica Cullen, *Learning to identify relevant information on PowerPoints: The impact of Conscientiousness and feedback type*. Mentors: Joshua Williams & Nancy McCarley

1:30-1:50

*+^Mary Kate Moore, *George Berkeley and Multimodal Perception: Forgotten influences on modern perspectives*. Mentors: Joshua Williams & Nancy McCarley

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2:00-3:00

2:00-2:20

Chanukya Badri, Ayman Bagabas, & Donald Hinton,
Construction of Elliptic Curves Using Fibonacci Prime Numbers. Mentor: Duc Huynh

2:20-2:40

^Rosina Campbell & Keely Hughes, *Solutions to Linear Differential Equations having Infinite Monomial Galois Group*. Mentor: Sabrina Hessinger

2:40-3:00

Keely Hughes, *Ticket to Ride: A Strategy Guide Using Partial Spanning Trees*. Mentor: Paul Hadavas

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HISTORY
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9:30-9:50

Daniel Smith, *Heavenly or Worldly Warfare*. Mentor: Jason Tatlock

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^Grace Powers, *Secular and Religious Medicine in Ancient Civilizations*. Mentors: Christopher Hendricks & Jonathan Roberts

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Margaret Higgins, *Facets of Freedom: Conflicting Political Ideologies in the Formation of the Irish Free State*. Mentors: Hapsatou Wane & Olavi Arens

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*^Jesus Miguel de Alba, *Nature and Nurture: Urbanization's influence on student academic achievement*, GA. Mentor: MeiMei Lin

Faculty UR Workshop!

3:00-4:15

Dr. Anastasia Lin, *Scaffolding Undergraduate Research: From the First Year to Graduation and Beyond*

Education
4:15-4:55

4:15-4:35

**Sharia Davis, *The Effects of Racism on African Americans' Education in America*. Mentor: Regina Rahimi

4:35-4:55

**Britton Hammel-Cobb, **Lauren Kelly, **Kaitlyn Demirjian, & **Charlton Riegner. *Gamification of the Science Classroom: An Investigation of the Use of an Online Gaming Platform to Improve Student Performance*. Mentor: Rebecca Wells

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HISTORY 2000 POSTER SESSION

3:30-4:45

1. Elizabeth Ossi, *Food Deserts in America*. Mentor: Carol Linskey
2. LaQuandra Bundage, *Is Dark Chocolate "Really" Unhealthy?* Mentor: Carol Linskey
3. Tyia Causey, *A comparison between American and Asian Processed Snacks*. Mentor: Carol Linskey
4. Tatyana Coleman, *Cheesy Eating*. Mentor: Carol Linskey
5. Kaitlin Beaudoin, *Harmful Effects of Nonbiodegradable Plastics*. Mentor: Carol Linskey
6. Katherine Hillery, *The History and Prevalence of Corn*. Mentor: Carol Linskey
7. Tu Pham, *The Wonder World of Hotdog*. Mentor: Carol Linskey
8. Sydney Echols, *Energy Drinks in the US*. Mentor: Carol Linskey
9. Samoria Smith, *Finding the Good in Coffee*. Mentor: Carol Linskey

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